PTO/SB/05 (03-01)

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# UTILITY PATENT APPLICATION TRANSMITTAL

8836-138 DIV (IE10162-US) Attorney Docket No. Tai-Su PARK First Inventor Semiconductor Device Having a Trench....

EV 329488999 US Express Mail Label No. (Only for new nonprovisional applications under 37 CFR 1.53(b)) Assistant Commissioner for Patents APPLICATION ELEMENTS ADDRESS TO: **Box Patent Application** Washington, DC 20231 See MPEP chapter 600 concerning utility patent application contents. Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) Specification [Total Pages [22] (preferred arrangement set forth below) 3. X Computer Readable Form (CRF) - Descriptive title of the invention b. Specification Sequence Listing on: - Cross Reference to Related Applications i. CD-ROM or CD-R (2 copies); or Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix Statements verifying identity of above copies - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) ACCOMPANYING APPLICATION PARTS - Detailed Description Assignment Papers (cover sheet & document(s)) - Claim(s) 37 CFR 3.73(b) Statement Power of - Abstract of the Disclosure 10 Attornev (when there is an assignee) English Translation Document (if applicable) 4. X Drawing(s) (35 U.S.C. 113) [ Total Sheets Copies of IDS Information Disclosure 12. Citations [ Total Pages 5. Oath or Declaration Statement (IDS)/PTO-1449 Preliminary Amendment Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 18 completed) 13. Return Receipt Postcard (MPEP 503) X14. X (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed) **DELETION OF INVENTOR(S)** 15. Signed statement attached deleting inventor(s) Nonpublication Request under 35 U.S.C. 122 named in the prior application, see 37 CFR (b)(2)(B)(i). Applicant must attach form PTO/SB/35 1.63(d)(2) and 1.33(b). or its equivalent Card Payment Form PTO-2038 Application Data Sheet. See 37 CFR 1.76 Other: for \$750.00 17. X 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: 09, 964,906 Continuation X Divisional Continuation-in-part (CIP) of prior application No.:\_ 2811 Examine Owens, Douglas W. Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Correspondence address below Customer Number or Bar Code Label (Insert Customer No. or Attach bar code label ha Frank Chau, Esq. Name F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike **Address** New York Zip Code 11554 State City East Meadow 516-357-0092 516-357-0091 USA Telephone Country 48,609 Thomas W. McNally Registration No. (Attorney/Agent) Name (Print/Type) L 2003

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



2003

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July 21, 2003 Tai-Su PARK First Named Inventor **Examiner Name** Art Unit

Applicant claims small entity status. See 37 CFR 1.27

Effective 01/01/2003. Patent fees are subject to annual revision.

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TOTAL AMOUNT OF PAYMENT (\$) 750.00		Attorr	ney Doc	ket N	lo. 8836-13	38 DIV (IE10162-US)	
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
Check Credit card Money Other None	3. ADDITIONAL FEES						
Deposit Account:	<u>Large</u>	Entity	Small I	Entity			
Deposit	Fee Cod	Fee e (\$)		Fee (\$)	Fee I	Description	Fee Paid
Account Sumber	1051	• •	2051	• •	Surcharge - late	filing fee or oath	ree Paid
Deposit Account F. Chau & Associates, LLP	1052	2 50	2052	25	Surcharge - late cover sheet	provisional filing fee or	
Name The Commissioner is authorized to: (check all that apply)	1053	3 130	1053	130	Non-English spe	ecification	
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812 2	,520	For filing a reque	est for ex parte reexamination	
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Charge fee(s) indicated below, except for the filing fee	ľ	5 1,840*	1805 1	,840*		lication of SIR after	
to the above-identified deposit account.	1251	110	2251	55		ply within first month	
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1. BASIC FILING FEE Large Entity Small Entity	1253	-	2253			eply within third month	
Fee Fee Fee Fee Description Fee Paid	1254	1,450	2254	725		eply within fourth month	
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee	1255	1,970	2255	985		eply within fifth month	
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1002 330 2002 165 Design filing fee 1003 520 2003 260 Plant filing fee	1402		2402		• •	support of an appeal	
1004 750 2004 375 Reissue filing fee	1403		2403		Request for ora	**	
1005 160 2005 80 Provisional filing fee		1,510				ute a public use proceeding	
	1452		2452		Petition to revive	, ,	
SUBTOTAL (1) (\$) 750.00		1.300	2453		Petition to reviv		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,300	2501		Utility issue fee		
Fee from Ext <u>ra Claims below Fee Paid</u>	1502		2502		Design issue fe	•	
Total Claims 12 -20** = 0 x 18 = 0	1503	630	2503	315	Plant issue fee		
Independent 2 - 3** = 0 x 84 =0	1460	130	1460	130	Petitions to the	Commissioner	
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1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submiss	sion after final rejection	
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	(37 CFR 1.129) For each addition	a)) onal invention to be	
1204 84 2204 42 ** Reissue independent claims		İ			examined (37 C	` ''	
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**or number previously paid, if greater; For Reissues, see above	*Red	luced by	Basic Fi	ling Fe	ee Paid S	UBTOTAL (3) (\$)	
SURMITTED BY	===	===				(Complete (if applicable)	
Name (Print/Type) Thomas W. McNally		Registra		48	609	Telephone 516-357-0091	···
Halle (Fill Type)		(Attorney/	'Aaent)	40,	009	10.0p.101.6 0 10-001-0091	

Date Signature WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete. including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

PATENT

Atty. Docket No. <u>8836-138 DIV (IE10162-US)</u>

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAIL STOP PATENT APPLICATIONS Commissioner for Patents PO BOX 1450 Alexandria VA 22313-1450

### APPLICATION FEE TRANSMITTAL

Sir:	
Transmitted her	ewith for filing is the patent application of
Inventor(s):	Tai-Su PARK
For:	SEMICONDUCTOR DEVICE HAVING A TRENCH ISOLATION

STRUCTURE AND METHOD FOR FABRICATING THE SAME

## This application is a:

- [ ] Continuation
- [ ] Continuation-In-Part (CIP)
- [X] Divisional

of co-pending U.S. application Serial No. <u>09/964,906</u> filed on <u>September 27, 2001</u>

#### CERTIFICATION UNDER 37 C.F.R. § 1.10

I hereby certify that this Application transmittal and the documents referred to as enclosed are being deposited with the United States Postal Service on this date **July 21**, **2003** in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number **EV 329488999US** addressed to: Mail Stop Patent Application, Commissioner for Patents, PO Box 1450, Alexandria VA 22313-1450.

Thomas W. McNally
(Type or print the of person mailing paper)
(Signature of person mailing paper)

Enclosed are:
[X] 15 page(s) of specification
[X] 1 page(s) of Abstract
[X] 6 page(s) of claims
[X] 10 sheets of drawings [X] formal [] informal
[X] page(s) of Declaration and Power of Attorney (copy as filed in co-pending application no. 09/964,906,filed September 27, 2001).
[X] Certified copy of applications
Country Appln. No. Filed
Korea 2001-15149 23 March 2001
from which priority under Title 35 United States Code, § 11 is claimed
[] is enclosed.
[ ] will follow.
[X] original filed in co-pending application no. 09/964,906 filed September 27, 2001
Additional papers enclosed:
[X] Preliminary Amendment
[ ] Information Disclosure Statement
[ ] Form PTO-1449
[] Other

## Fee Calculation (37 C.F.R. §1.16)

For	Number Filed			Number Extra		Rate		Basic \$75	Fee 50.00
Total									
Claims*	12	-20	=	0		x \$ 18.00		\$	.00
Independent									
Claims	2	3 _	=	0		x \$ 84.00		\$_	00
Multiple	[ ]	yes		Add'l.	Fee	\$280.00		\$	
Dependent		-							
Claims	[X]	no		Add'l.	Fee	None	=	\$	.00

TOTAL \$750.00

- [] Verified Statement of "Small Entity" Status Under 37 C.F.R. § 1.27 [] is enclosed, [] was filed in parent application. Reduced fees under 37 C.F.R. § 1.9(f) (50% of total) paid herewith § .00.
- [] Please charge fee of \$\_\_\_\_ For recording the attached Assignment by Credit Card Payment Form PTO-2028 enclosed herewith.
- [X] Please charge fee of \$750.00 to cover the filing fee by Credit Card Payment Form PTO-2038 enclosed herewith.
- [ ] Charge fee to Deposit Account No. 50-0679 TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

<sup>\*</sup> Includes all independent and single dependent claims and all claims referred to in multiple claims. See  $37 \text{ C.F.R.} \S 1.75(c)$ .

[X] Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 50-0679. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 50-0679 therefor. TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.

#### Relate Back - 35 U.S.C. § 120

[X] Amend the specification by inserting before the first line the sentence:

"This is a [] continuation [] continuation-in-part [X] divisional of copending application Serial No. 09/964,906, filed September 27, 2001.

[X] The prior application is assigned of record to SAMSUNG ELECTRONICS CO., LTD recorded on September 27, 2001 Reel 012223, Frame 0890

Date: 21 July 7003

Thomas W. McNally Reg. No. 48,609

F. CHAU & ASSOCIATES, LLP 1900 Hempstead Turnpike, Suite 501 East Meadow, New York 11554

Tel. No. (516) 357-0091 Fax. (516) 357-0092

FC/TWM:mel